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- ❖ TASK- 1) Scan cloud instances using free scanners.
 - 2) Identify vulnerabilities.
 - 3) Document remediation steps.

Step 1: Log in to AWS Console

- Go to AWS Management Console.
- Sign in with your AWS account.

Step 2: Open AWS Inspector

- In the **search bar** (top of AWS console), type **Inspector**.
- Click on Amazon Inspector.

Step 3: Enable Inspector (First-time setup)

- If this is your **first time**, you'll see a **Get started** or **Enable Amazon Inspector** button.
- Click **Enable** → Wait for AWS to activate it

Step 4: Select the Instances for Scanning

- Amazon Inspector automatically detects your **EC2 instances** and **container images**.
- You'll see your resources listed under "Coverage".

Step 5: Run a Scan

- AWS Inspector scans automatically once enabled.
- If you want manual scan, click:
 - \circ Scans \rightarrow Start scan \rightarrow Select resources \rightarrow Click Run.

Step 6: View Vulnerability Findings

• Go to **Findings** tab.

- You'll see a list of vulnerabilities:
 - o **Severity**: Critical, High, Medium, Low.
 - o **Description**: What the issue is.
 - o **Affected Resource**: The EC2 instance ID.
 - o **Remediation**: How to fix it.

Step 7: Document the Findings

In your documentation, note:

- Finding name
- Severity
- Affected Resource
- Recommendation

Step 8: Apply Remediation

Typical remediation steps:

• Outdated packages → SSH into the EC2 instance and run:

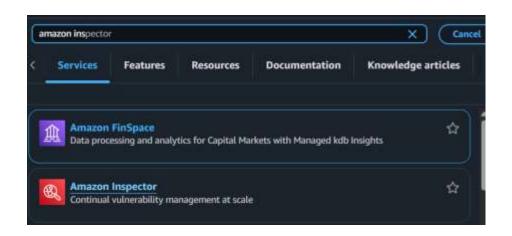
```
bash
CopyEdit
sudo apt update && sudo apt upgrade -y  # For Ubuntu/Debian
sudo yum update -y  # For Amazon Linux/RHEL
```

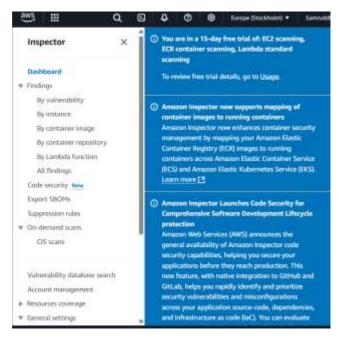
- Unnecessary open ports → Go to EC2 → Security Groups → Edit inbound rules → Remove unused ports.
- Weak configurations → Update IAM policies, use stronger encryption, etc.

Step 9: Re-Scan After Fix

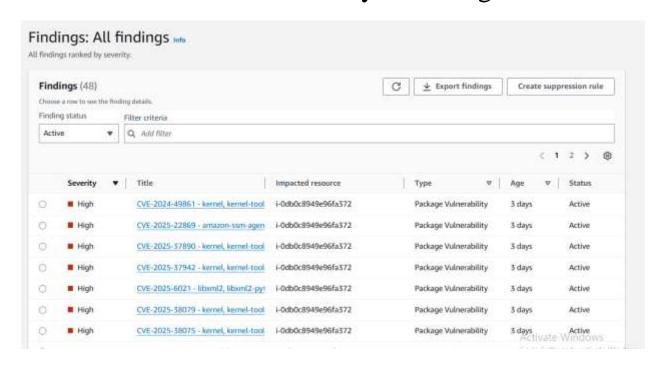
 Run another scan from Inspector → Scans → Start Scan to confirm vulnerabilities are resolved.

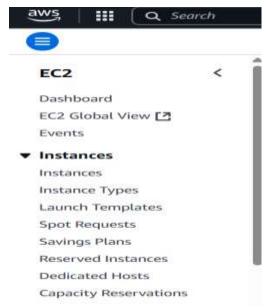
❖ Screenshot-











```
Installed:
kernel.x86_64 8:5.18.239-236.958.amzn2

Updated:
amazon-ssm-agent.x86_64 0:3.3.2299.0-1.amzn2
kernel-tools.x86_64 0:5.10.239-236.958.amzn2
libxml2.x86_64 0:2.9.1-6.amzn2.5.19
openssh.x86_64 0:2.9.1-6.amzn2.0.10
perl.x86_64 0:2.9.1-6.amzn2.0.10
perl.x86_64 0:5.16.3-299.amzn2.0.3
perl-macros.x86_64 0:5.16.3-299.amzn2.0.3
python-libs.x86_64 0:2.7.18-1.amzn2.0.13
python2-cryptography.x86_64 0:1.7.2-2.amzn2.0.1
python3-libs.x86_64 0:3.7.16-1.amzn2.0.18
screen.x86_64 0:4.1.0-0.27.20120314git3c2946.amzn2.0.2
```

[ec2-user@ip-172-31-46-230 -]\$ |

aws-cfn-bootstrap.noarch 0:2.0-35.awzn2 libicu.x86_64 0:50.2-4.awzn2.0.2 libxwl2-python.x86_64 0:2.9.1-6.awzn2.5.19 openssh-clients.x86_64 0:7.4p1-22.awzn2.0.10 perl-Pod-Escapes.noarch 1:1.04-299.awzn2.0.3 python.x85_64 0:2.7.18-1.awzn2.0.13 python-requests.noarch 0:2.6.0-10.awzn2.6.7 python2-setuptools.noarch 0:41.2.0-4.awzn2.0.6 python3-pip.noarch 0:20.2.2-1.awzn2.0.12 sudo.x86_64 0:1.8.23-10.awzn2.3.8

cloud-init.noarch 0:19.3-46.am libtasn1.x86.64 0:4.19-1.amzn2 mtr.x86.64 2:0.92-2.amzn2.0.2 openssh-server.x86.64 0:7.4p1perl-libs.x86.64 4:5.16.3-299. python-devel.x86.64 0:2.7.18-1 python-urllib3.noarch 0:1.25.9 python3.x86.64 0:3.7.16-1.amzn python3.setuptools.noarch 0:49

> Activate V Go to Setting